

DATE 5/22/61

SH. 1 OF 2

COMPLETED BY

TMC SPECIFICATION NO. S-562

REV

A

TITLE: Modification of Model AN/URA-30(SBG-1)

JOB

APPROVED

To Provide ALDC Input.

PURPOSE: The purpose of this modification is to provide facilities in the model AN/URA-30(SBG-1) for connection of automatic load and drive control(ALDC) for use with single sideband amplifiers, having ALDC circuitry incorporated in them and provide a DC voltage which falls, or can be made to fall, within the limits indicated on the graph(GP-172) attached hereto.

UNIT REQUIRING MODIFICATION:

The only component in the AN/URA-30(SBG-1) which requires modification to provide the ALDC input is the Model (CHG). This modification consists of substituting a balanced modulator which has been modified to provide an additional terminal at its base, an RF filter, and a length of coax (RG-174U) of sufficient length to reach from the balanced modulator to a BNC connector on the rear apron of the chassis. A hole must be drilled in the rear apron to accommodate the BNC connector. A partial schematic showing the electrical change is indicated in drawing 1-1578 attached.

TIME TO ACCOMPLISH:

The entire modification should require less than one (1) hour to perform by a relatively inexperienced technician.

PERFORMANCE:

The attached graph (GP-172) indicates the range of negative DC voltage required from the ALDC

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network in the transmitter to vary the PEP output of the AN/URA-30 from maximum to minimum. One of the outstanding features of the ALDC circuit incorporated in the AN/URA-30 is the complete absence of distortion introduced thereby as compared to other types of ALDC.

